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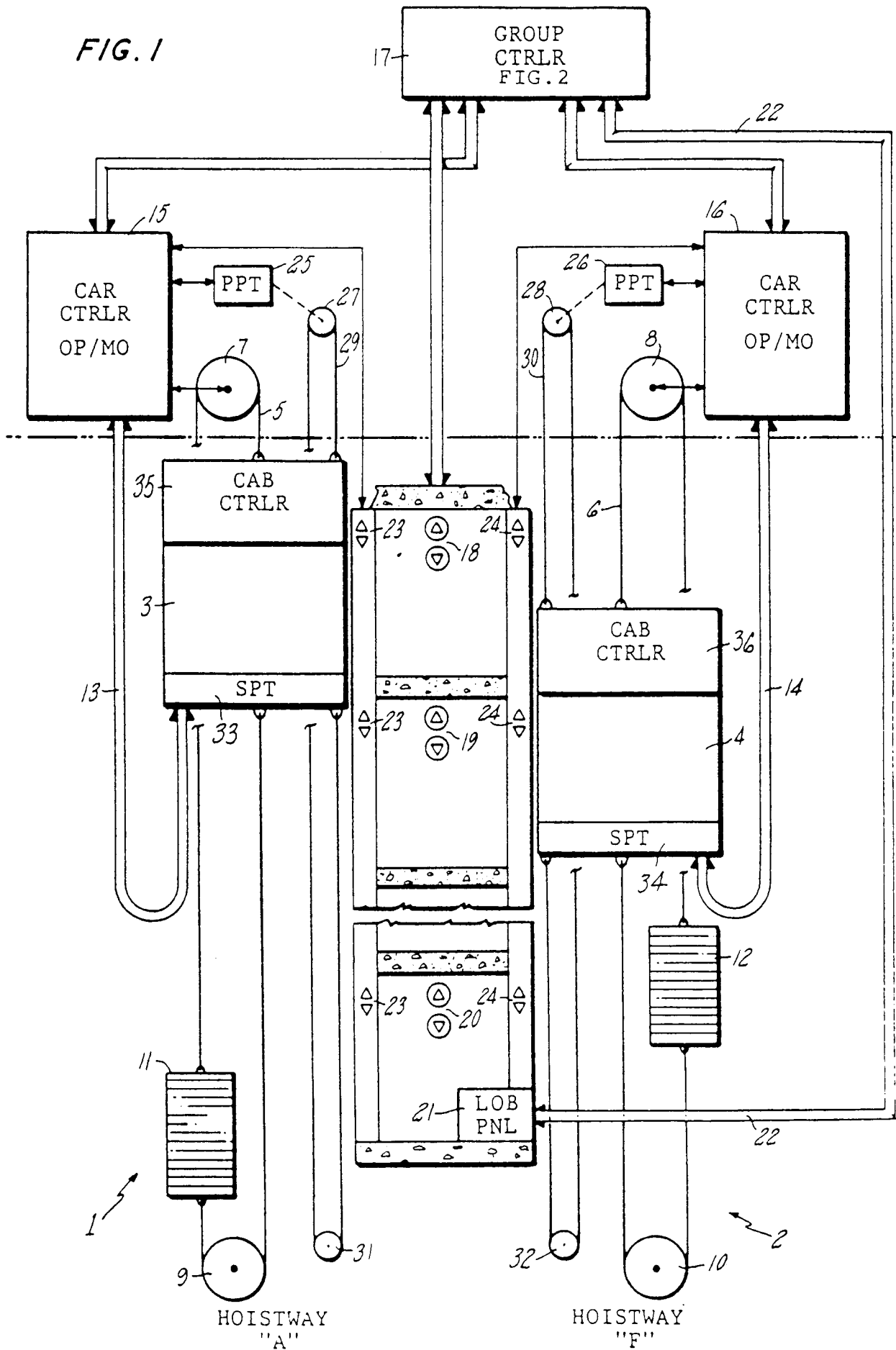
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"Artificial Intelligence" based learning system predicting "Peak-Period" times for elevator dispatching.

The present invention is directed to an elevator dispatching system for controlling the assignment of elevator cars. More particularly, the present invention is directed to a method of determining the commencement and/or conclusion of UP-PEAK and DOWN-PEAK periods of operation. For example, for commencing UP-PEAK operation, a lobby boarding count is predicted, based on historical information of the number of passengers boarding the elevators at the lobby. The predicted lobby boarding count is compared with a predetermined threshold value. If the predicted lobby boarding count is greater than the predetermined threshold value, UP-PEAK is commenced. In the preferred embodiment, the predetermined threshold value is a predetermined percentage of the building's population. Additionally, the present invention is directed to a method of adjusting the threshold value based on actual passenger traffic. For example, once UP-PEAK is commenced, the load of the first few elevators leaving the lobby within a predetermined time interval is determined, and the threshold value is adjusted based on their predetermined load. If the determined load is greater than a certain percentage of the elevator car's capacity, indicative of starting UP-PEAK too late, the threshold value is decreased. Similarly, if the determined load is less than a certain percentage of the elevator car's capacity, indicative of starting UP-PEAK too soon, the threshold value is increased.

FIG. 1





European Patent
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EUROPEAN SEARCH REPORT

Application Number

EP 91 30 1788

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	GB-A-2 168 827 (MITSUBISHI DENKI K.K) * page 5, line 17 - line 62; figures 8,9 * ---	1,3,6, 10,12, 14-18	B66B1/20
A	US-A-4 612 624 (TSUJI) * column 7, line 40 - line 65; figures 1-3 * ---	1,12,17, 18	
A	US-A-4 044 860 (KANEKO ET AL) * column 10, line 25 - column 11, line 38; figure 1 * ---	1,12,17, 18	
A	US-A-4 473 134 (UETANI) * column 7, line 1 - column 8, line 34 * -----	1,12,17, 18	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B66B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04 DECEMBER 1991	Examiner CLEARY F.M.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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